PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference BWY-005.25	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2004/021247	International filing date (day/month/year) 02 July 2004 (02.07.2004)	Priority date (day/month/year) 11 July 2003 (11.07.2003)	
International Patent Classification (8t See relevant information in Form I	h edition unless older edition indicated) PCT/ISA/237		
Applicant THE BRIGHAM AND WOMEN'S F	HOSPITAL, INC.		

l.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).						
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.						
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.						
3.	This report contains indications relating to the following items:						
	Box No. I	Box No. I Basis of the report					
	Box No. II	Priority					
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV	Lack of unity of invention					
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited					
	Box No. VII	Certain defects in the international application					
	Box No. VIII	Certain observations on the international application					
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).						
			Date of issuance of this report 16 January 2006 (16.01.2006)				
The International Bureau of WIPO 34, chemin des Colombettes			Authorized officer				
1211 Geneva 20, Switzerland			Yoshiko Kuwahara				
L	mile No. +41 22 740 14 35		Telephone No. +41 22 338 90 90				

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTH	IORITY				
To: SCOTT E. KAMHOLZ FOLEY HOAG LLP 155 SEAPORT BLVD.		w.	PCTREC'D 13 MAY 2025 WIPO PO		
BOSTON, MA 02210			ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY		
-			(PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	11 MAY 2005		
Applicant's or agent's file reference		FOR FURTHER			
MAA-011.25			See paragraph 2 below		
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/US04/21247	02 July 2004 (02.07.2004		11 July 2003 (11.07.2003)		
International Patent Classification (IPC)	or both national classificati	ion and IPC			
IPC(7): A61M 37/00, 1/14 and US Cl.: Applicant	604/4.01, 6.14; 422/44, 4	5			
			}		
BRIGHAM AND WOMEN'S HOSPITA	AL .				
1. This opinion contains indications re	lating to the following item	s:			
Box No. I Basis of the opinion					
Box No. II Priority	Box No. II Priority				
Box No. III Non-establ	No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of un	Lack of unity of invention				
. —	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain do	cuments cited				
Box No. VII Certain de	fects in the international ap	plication			
Box No. VIII Certain ob					
2. FURTHER ACTION					
If a demand for international preling International Preliminary Examining	ng Authority ("IPEA") ex the IPEA and the chosen I	cept that this does PEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an e International Bureau under Rule 66.1bis(b) dered.		
IPEA a written reply together, when mailing of Form PCT/ISA/220 or b	nere appropriate, with ame efore the expiration of 22 r	endments, before th	PEA, the applicant is invited to submit to the te expiration of 3 months from the date of ority date, whichever expires later.		
For further options, see Form PCT	For further options, see Form PCT/ISA/220.				
3. For further details, see notes to For	m PCT/ISA/220.		,		
Name and mailing address of the ISA/ U	IS	Authorized office	D Na A I		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Patricia M Bianc	soften to		
P.O. Box 1450 Alexandria, Virginia 22313-1450		Tolombons No. 6	571) 272 4040		
Facsimile No. (703) 305-3230 Telephone No. (571) 272-4940					

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/21247

Box No.	I Basis of this opinion
it was fi	gard to the language, this opinion has been established on the basis of the international application in the language in which led, unless otherwise indicated under this item.
T W	his opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With reclaimed	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the invention, this opinion has been established on the basis of:
a. t	ype of material
[a sequence listing
	table(s) related to the sequence listing
b. f	ormat of material
[in written format
	in computer readable form
c. t	ime of filing/furnishing
[contained in international application as filed.
[filed together with the international application in computer readable form.
[furnished subsequently to this Authority for the purposes of search.
	1
f	n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been iled or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Addition	nal comments:
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	·

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (January 2004)

International application No. PCT/US04/21247

1. Statement			
Novelty (N)	Claims	5, 11, 16, 17, 22	YES
	Claims	1-4, 6-10, 12-15, 18-21, 23-44	NO
Inventive step (IS)	Claims	NONE	YES
	Claims	1-44	NO
Industrial applicability (IA)	Claims	1-44	YES
	Claims	NONE	NO
Approximately, 2027,476). Sterman discloses an apparatus and mardiac procedure, and an endoscope/angioscope the dium to visualize the heart. The endoscope/angionstituting a circuit. Claims 4-6, 11, 16, 17, & 22 lack an inventive sterman does not explicitly teach that either the first the aorta, where the medium is a fluorocarbon, would have been obvious to modify the circuits to erfusion methods. It also would have been obvious with respect to the medium being a fluorocarbon,	nat is connected ioscope will inhunder PCT An stor second cirks such as perflurouse the vena carus to perform the such as the such a	to the patient for perfusing the heart with a terently be connected to a fluid source via to tricle 33(3) as being obvious over Sterman cuits receive blood or pumping medium from carbon, and that the observation is of a heave and aorta to deliver fluids, since it is context to surgical procedure that includes visualization.	t non-impairing fluid ubing, thereby et al. (US '476). m a vena cava for return tr valve. However, it nmonly done in tion of heart valves.